

BEHIND-THE-SCENES AT GLENAIR SALEM

# Premier Space-Flight Interconnect Component and Harness Manufacturing

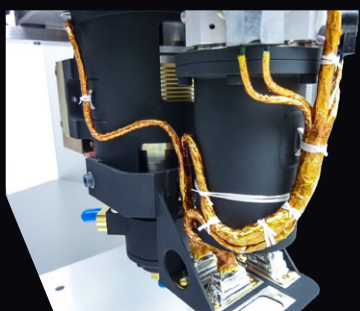
Glenair has been making interconnect and wire harness shielding products since the dawn of manned space flight. At our space system business unit in Salem, Germany, we have created a vertically-integrated space-grade component manufacturing, harness assembly, test, and integration operation. In building interconnect solutions for space—as opposed to other disciplines—we follow different rules of engagement. Every crimp joint, for example, is photographed. Every shield junction measured and recorded. Every electromechanical HDRM is 3D optical profilometer-inspected. Nothing is left to chance, everything is documented. These practices extend into every area of the operation, from our space-grade harness assembly group to our mechanical integration team, and space mechanism fabrication shop. ESA/NASA IPC-certified staff provide value-added Engineering Base and 3D SolidWorks design, prototyping, and clean-room harness assembly. ISO 5 flow chamber (certified to ESD Standard 61340-5-1), with ample accommodation for large mock-up and integration projects.



Clean Room assembly with both environmental filtering and electrostatic discharge protection.



Wire Harness FABRICATION



INTEGRATION

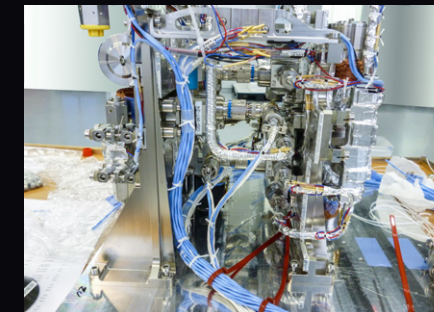
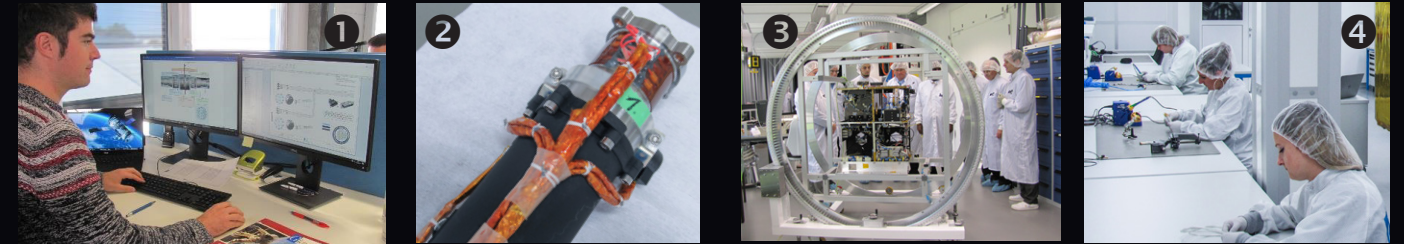
ESA and NASA IPC-Certified

Wire Harness

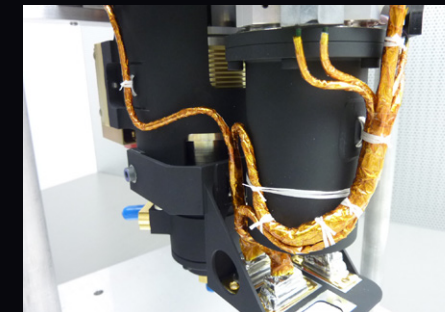
**Assembly and Integration:** Glenair has produced thousands of ground and space-flight shielded interconnect harness assemblies. Our GSS facility is optimized to serve both the European and NA markets with unique flight-ready systems and integrated assemblies that combine Glenair's unique range of high-performance interconnect components with our ESA/NASA IPC-certified harness assembly and clean-room integration capabilities.

## GLENAIR SALEM HARNESS DESIGN, PRODUCTION, AND INTEGRATION SERVICES

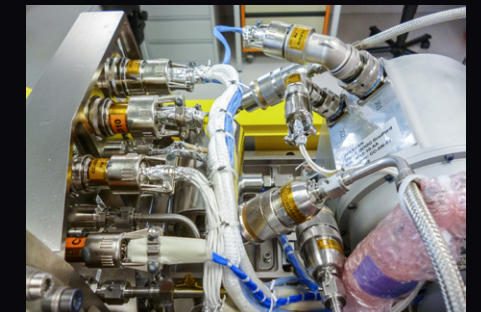
Glenair's space system business unit in Salem, Germany is an ESA/NASA IPC-certified interconnect wire harness assembly operation. Point-to-point and complex multibranch wire cable assemblies are produced to exact customer mechanical, thermal, electrical and radiation requirements and may be integrated on-site to both satellite mockups and space-flight systems in our 300 m<sup>2</sup> ISO 8 and ISO 6 clean rooms. A turnkey cable harness design and fabrication operation, Glenair's team in Salem professionally manages projects from (1) engineering and documentation, to (2) wire harness prototype, to (3) mission simulation and test, to (4) clean-room integration.



Complex integration and assembly of flight-grade wire harnesses

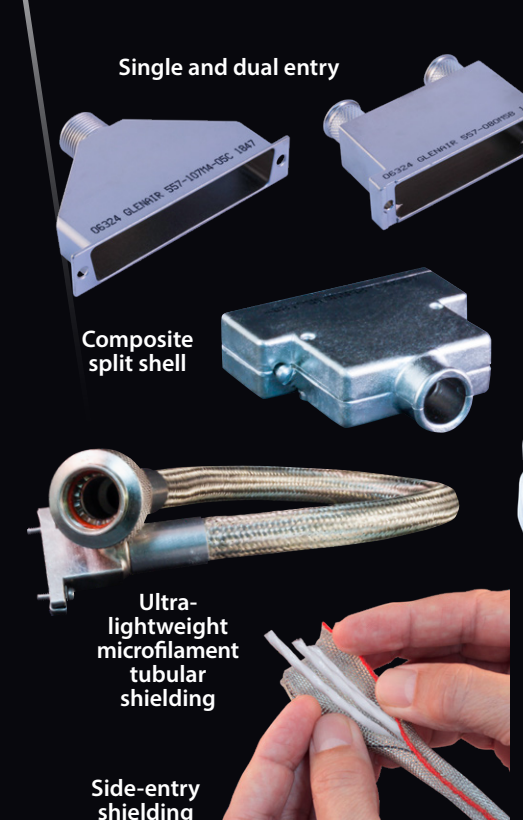


Harness integration into space payload electromechanical devices



EMI shielded and open-wire bundle assemblies ready for flight

## ESA-QUALIFIED Backshells and D-SUBMINIATURE Harness Shielding



Single and dual entry

Composite split shell

Ultra-lightweight microfilament tubular shielding

Side-entry shielding

